

LPDES PERMIT NO. LA0007901, AI No. 38936

LPDES FACT SHEET and RATIONALE
FOR THE DRAFT MODIFIED LOUISIANA POLLUTANT DISCHARGE ELIMINATION SYSTEM
(LPDES) PERMIT TO DISCHARGE TO WATERS OF LOUISIANA

- I. **Company/Facility Name:** TIN, Inc. d/b/a Temple-Inland
Bogalusa Paperboard Mill
Post Office Box 1060
Bogalusa, Louisiana 70427-1060
- II. **Issuing Office:** Louisiana Department of Environmental Quality
(LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313
- III. **Prepared By:** Sonja Loyd
Industrial Permits Section
Water Permits Division
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Date Prepared: July 27, 2009

IV. **Permit Action/Status:**A. **Reason For Permit Action:**

Modification of an existing Louisiana Pollutant Discharge Elimination System (LPDES) permit following regulations promulgated at LAC 33:IX.3105/40 CFR 124.5. In accordance with LAC 33:IX.3105.B.2, only those permit limitations and conditions pertaining to the draft modifications are open for public comment.

LAC 33:IX Citations: Unless otherwise stated, citations to LAC 33:IX refer to promulgated regulations listed at Louisiana Administrative Code, Title 33, Part IX.

40 CFR Citations: Unless otherwise stated, citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations in accordance with the dates specified at LAC 33:IX.2301, 4901, and 4903.

- B. **LPDES permit:** Individual LPDES permit
Effective date - July 1, 2006
Expiration date - June 30, 2011
- LAR05M243 (MSGP - Re-authorization)
Effective date: May 1, 2006
Issuance date: May 23, 2006
Expiration date: April 30, 2011

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- C. Modification request received on September 8, 2008 and an addendum received on August 19, 2009.

V. Facility Information:

- A. Location - Fourth Street in Bogalusa, Washington Parish
(Latitude 30°46'30", Longitude 89°51'17")
- B. Applicant Activity - According to the application, TIN, Inc. d/b/a Temple-Inland, Bogalusa Paperboard Mill, is an existing unbleached kraft paper mill, container plant, and dimethyl sulfide and dimethyl sulfoxide manufacturing plant. However, in 2010, the permittee anticipates shutting down and decommissioning the dimethyl sulfide and dimethyl sulfoxide manufacturing plant (Chemical Plant). The permittee is proposing to implement this change of operations in two phases. Phase I will include requirements based on the current conditions. Phase II will include requirements based on the removal of the Chemical Plant.
- C. Fee Rate -
1. Fee Rating Facility Type: Major
 2. Complexity Type: III
 3. Wastewater Type: II
 4. SIC code: 2611, 2621, 2631, 2653, and 2869

VI. Receiving Waters: Pearl River

- A. TSS (15%), mg/L: 16
- B. Average Hardness, mg/L CaCO₃: 16.1
- C. Critical Flow, cfs: 1,253
- D. Mixing Zone Fraction: 0.333
- E. Harmonic Mean Flow, cfs: 3,821
- F. River Basin: Pearl River, Subsegment No. 090101
- G. Designated Uses:
The designated uses are primary contact recreation, secondary contact recreation, and propagation of fish and wildlife

Information based on the following: LAC 33:IX Chapter 11 and memorandum from Brian Baker to Sonja Loyd dated October 23, 2003.

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VII. Nature of Permit Modification:

The permittee has requested that the LPDES permit be modified to reflect the following:

- A. A revision of the monitoring frequency for pH at Outfall 001 from once per day to three times per week. A monitoring frequency of once per day in lieu of three times per week was initially requested by the United States Fish and Wildlife Service (FWS) to ensure that the limits and monitoring requirement for pH were protective of the Ringed Map Turtle, the Gulf Sturgeon, and their designated habitats and to verify if future discharges have the potential to impact these resources. However, based on information received via an email correspondence on September 5, 2007, the FWS has no objection to the monitoring frequency reduction and removal of the Part II Conditions (Part II.M) associated with it. In support of this decision, a No-Objection letter (dated April 15, 2008) was sent to the permittee from the LDEQ which terminated the reporting requirements under Part II.M since the requirements had been satisfied.
- B. A revision of the mass limits for the conventional, volatile, acid, and base/neutral parameters based on an updated flow rate for the Chemical Plant's contribution to the overall flow at Outfall 001. Specifically, the permittee indicated that the flow rate (0.65 MGD) used to calculate the Chemical Plant's contribution to the overall flow was incorrect. Therefore, the permittee requested that an updated and more representative maximum 30-Day average flow rate (1.9 MGD) be used for the discharges from the Chemical Plant in order to re-calculate the mass limits for the above mentioned parameters.
- C. A revision to include an additional phase (Phase II) in the permit that establishes mass limits for the conventional parameters based on a reduction in flow rate which is anticipated to occur as a result of the shutdown and decommissioning of the Chemical Plant in 2010. Therefore, during Phase II, there will no longer be any discharges from the Chemical Plant which will result in the removal of the following requirements from the permit: (1) the wastestream description for process wastewater from the dimethyl sulfide and dimethyl sulfoxide manufacturing plant and (2) the allocations and/or limits and monitoring requirements for the Organic Chemical, Plastics, and Synthetic Fibers (OCPSF) parameters cited at 40 CFR 414, Subparts H and I.
- D. The addition of a provision in the Part II Conditions that requires the permittee to notify the LDEQ within 30 days after the shutdown of the Chemical Plant. In addition, the permittee requested that a

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provision be added that allows the permittee to transition to Phase II after completion of an OCPSF-parameter monitoring event which demonstrates compliance with the OCPSF mass limits at Outfall 001. This monitoring event will be initiated 60 days following the shutdown of the Chemical Plant and cessation of discharge of any OCPSF regulated wastewaters.

VIII. Proposed Changes:

- A. The monitoring frequency for pH at Outfall 001 will be changed to reflect three times per week and Part II.M will be removed from the permit. See Part I, pages 2 and 6 of draft permit modification.
- B. The mass limits for the conventional, volatile, acid, and base/neutral parameters will be changed based on the updated flow rate for the Chemical Plant's contribution to the overall flow at Outfall 001. These limits and requirements will be identified as Phase I in the draft permit modification. This update will also result in a revision to Appendices A (Calculation of Technology-Based Limits Spreadsheet) and B (Reasonable Potential Analysis). A footnote will be added to Part I, page 5 (Phase I) of the draft permit modification which requires the permittee to notify the LDEQ prior to discharging under the Phase II requirements. See Part I, pages 2 - 5, Part II.I and Appendices A (A-1 through A-2) and B (B-1 and B-3) of the draft permit modification.
- C. An additional phase (Phase II) will be added in the permit that establishes mass limits for the conventional parameters based on a reduction in flow rate which is anticipated to occur as a result of the shutdown and decommissioning of the Chemical Plant in 2010. Therefore, during Phase II, there will no longer be any discharges from the Chemical Plant which will result in the removal of the following requirements from the permit: (1) the wastestream description for process wastewater from the dimethyl sulfide and dimethyl sulfoxide manufacturing plant and (2) the allocations and/or limits and monitoring requirements for the OCPSF parameters cited at 40 CFR 414, Subparts H and I. This update will also result in a revision to Appendices A (Calculation of Technology-Based Limits Spreadsheet) and B (Reasonable Potential Analysis). See Part I, pages 6 - 7, Part II.I and Appendices A (A-3) and B (B-2 and B-3) of the draft permit modification.
- D. A provision will be added in the Part II Conditions of the permit that requires the permittee to notify the LDEQ within 30 days after the shutdown of the Chemical Plant. In addition, a second provision will be added that allows the permittee to discharge under the Phase II requirements after completing an OCPSF-parameter monitoring event which demonstrates compliance with the OCPSF mass limits under Phase

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- I. This monitoring event will be initiated 60 days following the shutdown of the Chemical Plant and cessation of discharge of any OCPSF regulated wastewaters. See Part I, page 5 and Part II.I of the draft permit modification.
- E. Please be advised that the following changes have been made to the permit in addition to the changes requested by the permittee above:
1. The outfall description for Outfall 001 will be updated to include contaminated groundwater from a groundwater remediation project. In support of this decision, a No Objection letter (dated August 22, 2007) was sent to the permittee from the LDEQ which approved the discharges of this wastestream from this outfall. See Part I, pages 2 and 6 of the draft permit modification.
 2. The footnotes for the biomonitoring requirements in Part I of the permit will be changed to correspond to the appropriate paragraph in accordance with Item 3 below. See Part I, pages 5 and 7 of the draft permit modification.
 3. All of the pages under the Part II Conditions will be renumbered due to changes that resulted from the inclusion or removal of language in this section of the permit. See Part II, pages 1 - 22 of the draft permit modification.
 4. The language in Part II.K will be updated to reflect the facility's coverage under the current Multi-Sector General Permit.
 5. The standard DMR language in Part II.L will be changed to incorporate wording that allows the submittal of electronic DMRs. In the addition, the provision in this section that required submittal of DMRs to the Southeast Regional Office will be removed from the permit since all DMRs sent to the Office of Environmental Compliance - Permit Compliance Unit are now scanned into EDMS which is accessible to all LDEQ personnel. See Part II.L of the draft permit modification.
 6. The biomonitoring requirements in Part II.M (previously Part II.N) will be updated in accordance with current U.S. Environmental Protection Agency, Region 6 (USEPA) policy and biomonitoring protocol. In addition, this section will be updated to remove the requirement to report biomonitoring data on a DMR as TX1. Biomonitoring data shall be reported on a DMR as Outfall 001. This section will also include the dilution series that correspond to the Phase I and II

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requirements. See Appendix C for the updated Biomonitoring Recommendation.

7. The Water Quality Spreadsheet (Appendix B-1) was updated to reflect the correct sample values and/or input variables for Total Phenols, Total Copper, and Total Zinc based on the Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards. These values will also be included in Appendix B-2, as well.

IX. Compliance History/DMR Review:

- A. LDEQ records were reviewed for the period from June 2007 through June 2009. No water enforcement actions were issued during this time period.
- B. A DMR review of the monitoring reports for the period of June 2007 through June 2009 revealed the following effluent violation:

DATE	PARAMETER	OUTFALL	REPORTED VALUE	PERMIT LIMITS
02/09	pH	001	9.2 s.u.	9.0 s.u.

- C. The most recent inspection was performed on September 17, 2007. No areas of concern were found during the course of the inspection.
- D. There are no open enforcement actions for this facility under any media.

X. Endangered Species:

The receiving waterbody, Subsegment No. 090101 of the Pearl River Basin, has been identified by the U.S. Fish and Wildlife Service (FWS) as habitat for the Ringed Map Turtle and Gulf Sturgeon, which are listed as threatened species. This draft permit modification has been submitted to the FWS for review in accordance with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). As set forth in the Memorandum of Understanding between the LDEQ and the FWS, and after consultation with FWS, LDEQ has determined that the issuance of the LPDES permit modification is not likely to have an adverse effect upon the Ringed Map Turtle and Gulf Sturgeon. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

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XI. Historic Sites:

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

XII. Tentative Determination:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to modify the permit for the discharge described in the application.

XIII. Variances:

No requests for variances have been received by this Office.

XIV. Public Notices:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the fact sheet. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspapers of general circulation

Office of Environmental Services Public Notice Mailing List